

CLAIMS

1. An SRSV detection kit comprising all antibodies against SRSV-related virus constituting peptides selected from the following peptide groups (a) to (k), respectively:

(a) a peptide having an amino acid sequence represented by SEQ ID NO: 1 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(b) a peptide having an amino acid sequence represented by SEQ ID NO: 2 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(c) a peptide having an amino acid sequence represented by SEQ ID NO: 3 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(d) a peptide having an amino acid sequence represented by SEQ ID NO: 4 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(e) a peptide having an amino acid sequence represented by SEQ ID NO: 5 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(f) a peptide having an amino acid sequence represented by SEQ ID NO: 6 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(g) a peptide having an amino acid sequence represented by SEQ ID NO: 7 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(h) a peptide having an amino acid sequence represented

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by SEQ ID NO: 8 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(i) a peptide having an amino acid sequence represented by SEQ ID NO: 9 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(j) a peptide having an amino acid sequence represented by SEQ ID NO: 10 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof, and

10 (k) a peptide having an amino acid sequence represented by SEQ ID NO: 11 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof.

15 2. An SRSV detection kit according to claim 1, wherein said antibodies have been prepared by immunizing with virus-like particles.

3. An SRSV detection kit according to claim 1, which is useful for distinguishing serotype of SRSVs.

20 4. An SRSV detection kit for discriminating genogroup of SRSVs, the kit comprising all antibodies against SRSV-related virus constituting peptides selected from the following peptide groups (a) to (d), respectively:

(a) a peptide having an amino acid sequence represented by SEQ ID NO: 1 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

25 (b) a peptide having an amino acid sequence represented by SEQ ID NO: 2 and peptides each having at least 80% of homology

with said amino acid sequence, and partial peptides thereof,

(c) a peptide having an amino acid sequence represented by SEQ ID NO: 3 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof, and

(d) a peptide having an amino acid sequence represented by SEQ ID NO: 4 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof.

5. An SRSV detection kit for discriminating genogroup of SRSVs, the kit comprising all antibodies against SRSV-related virus constituting peptides selected from the following peptide groups (e) to (k), respectively:

(e) a peptide having an amino acid sequence represented by SEQ ID NO: 5 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(f) a peptide having an amino acid sequence represented by SEQ ID NO: 6 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(g) a peptide having an amino acid sequence represented by SEQ ID NO: 7 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(h) a peptide having an amino acid sequence represented by SEQ ID NO: 8 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof,

(i) a peptide having an amino acid sequence represented by SEQ ID NO: 9 and peptides each having at least 80% of homology

with said amino acid sequence, and partial peptides thereof,

(j) a peptide having an amino acid sequence represented by SEQ ID NO: 10 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof, and

(k) a peptide having an amino acid sequence represented by SEQ ID NO: 11 and peptides each having at least 80% of homology with said amino acid sequence, and partial peptides thereof.

6. An SRSV detection kit according to claims 1-5, wherein SRSVs are captured with solid-phase antibody carriers having said antibodies immobilized thereon.

7. An Hu/NLV/Chiba/407/1987/JP gene having a base sequence represented by SEQ ID NO: 15 or a base sequence similar to the first-mentioned base sequence except for deletion, replacement or addition of one to several bases of said first-mentioned base sequence.

8. An Hu/NLV/Kashiwa 47/1997/JP gene having a base sequence represented by SEQ ID NO: 20 or a base sequence similar to the first-mentioned base sequence except for deletion, replacement or addition of one to several bases of said first-mentioned base sequence.

9. An Hu/NLV/Mie 7k/1994/JP gene having a base sequence represented by SEQ ID NO: 21 or a base sequence similar to the first-mentioned base sequence except for deletion, replacement or addition of one to several bases of said first-mentioned base sequence.

10. An Hu/NLV/Osaka 10-25/1999/JP gene having a base sequence represented by SEQ ID NO: 22 or a base sequence similar to the first-mentioned base sequence except for deletion, replacement or addition of one to several bases of said
- 5 first-mentioned base sequence.